

Abstract of the Disclosure

Remotely controllable actuators are provided to alter the cavity size of bandpass cavity filters to alter the bandpass characteristics. In one embodiment, a stepper motor is used to provide lateral movement of a tuning plate to alter the size of the cavity. The neck of the cavity is also changed in length through the use of a tuning motor. A feedback loop is used to provide fine tuning of the length of the neck in response to changes due to temperature and vibration to offer maximum propagation of the signal to be transmitted. A coupling tuner is used to adjust to the resulting change in Q to the cavity. A tuning processor is used to receive signals from a remote location identifying the desired characteristics of the filter.

"Express Mail" mailing label number: EL721271392US

Date of Deposit: April 30, 2001

This paper or fee is being deposited on the date indicated above with the United States Postal Service pursuant to 37 CFR 1.10, and is addressed to BOX PATENT APPLICATION the Commissioner for Patents, Box Patent Application, Washington, D.C. 20231.